

Monprene® IN-12990

Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

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Product Description

Monprene IN-12990 is a high performance thermoplastic elastomer designed for the industrial market including seals and gaskets. Monprene IN-12990 is a high hardness, low specific gravity grade with good UV stability and is suitable for injection molding or extrusion.

General			
Material Status	Commercial: Active		
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Features	High HardnessLight Stabilized	Low DensityLow Specific Gravity	Sunlight Resistant
Uses	GasketsHandles	Industrial ApplicationsOutdoor Applications	Sporting GoodsTubing
RoHS Compliance	RoHS Compliant		
Appearance	 Clear/Transparent 		
Forms	• Pellets		
Processing Method	 Extrusion 	 Injection Molding 	

ASTM & ISO Properties 1				
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	0.890		ASTM D792	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	1.5	g/10 min	ASTM D1238	
Elastomers	Nominal Value	Unit	Test Method	
Tensile Stress ²			ASTM D412	
Across Flow: 100% Strain	620	psi		
Flow: 100% Strain	775	psi		
Tensile Stress ²			ASTM D412	
Across Flow: 300% Strain	803	psi		
Flow: 300% Strain	1010	psi		
Tensile Strength ²			ASTM D412	
Across Flow : Break	3000	psi		
Flow : Break	1920	psi		
Tensile Elongation ²			ASTM D412	
Across Flow : Break	830	%		
Flow: Break	670	%		
Tear Strength ²			ASTM D624	
Across Flow	362	lbf/in		
Flow	340	lbf/in		
Compression Set ³			ASTM D395B	
73°F, 22 hr	30	%		
158°F, 22 hr	63	% - + BR	ととは商	
Hardness	Nominal Value Nominal Value Light APE 92 Lekn Nominal Value 149	Chit X HE	100585Test Method	
Durometer Hardness	山崎塑作	诺尔爱师 021	ASTM D2240	
Shore A, 1 sec, Injection Molded	LANDEX92	加联系电应		
Shore A, 5 sec, Injection Molded	KNOR shahajoo			
Thermal	Nominal Value	Unit	Test Method	
Vicat Softening Temperature	149	°F	ASTM D1525	

Revision Date: 12/8/2010

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Legal Statement

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Processing Information			
Injection	Nominal Value Unit		
Rear Temperature	360 to 450 °F		
Middle Temperature	370 to 460 °F		
Front Temperature	380 to 470 °F		
Nozzle Temperature	390 to 480 °F		
Processing (Melt) Temp	390 to 480 °F		
Mold Temperature	95 to 120 °F		
Injection Pressure	200 to 800 psi		
Injection Rate	Fast		
Back Pressure	25.0 to 100 psi		
Screw Speed	50 to 100 rpm		
Cushion	0.150 to 1.00 in		
njection Notes			

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

Extrusion	Nominal Value Unit
Cylinder Zone 1 Temp.	360 to 450 °F
Cylinder Zone 2 Temp.	370 to 460 °F
Cylinder Zone 3 Temp.	380 to 470 °F
Cylinder Zone 4 Temp.	390 to 480 °F
Cylinder Zone 5 Temp.	390 to 480 °F
Die Temperature	390 to 480 °F

Extrusion Notes

Screw Speed: 30 to 100 rpm

- ¹ Typical properties: these are not to be construed as specifications.
- ² Die C, 20 in/min

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³ Type 1